

REMARKS

The claims are claims 1, 2, 6 to 13, 15 and 20 to 47.

The application has been amended at several locations to correct minor errors and to present uniform language throughout.

The Applicants respectfully submit that the drawings originally filed in this application included Figure 9 on sheet 9 of 17. The UTILITY PATENT APPLICATION TRANSMITTAL of this application listed 17 sheets of drawings. The postal reply card received in response to the filing of this application listed 17 sheets of drawings. The filing receipt received in this application and in the provisional application number 60/173,761 upon which this application claims priority noted receipt of 17 sheets of drawings. Accordingly, the Applicants respectfully the PTO records acknowledge receipt of the sheet including Figure 9.

An INFORMATION DISCLOSURE STATEMENT and fee for untimely filing are attached. U.S. Patent No. 6,173,393 discloses moving data while selectively writing according to a byte mask.

Claims 1, 6, 7, 13, 15 and 20 are amended. Claims 3, 4, 5, 14 and 16 to 19 are canceled. New claims 21 to 47 are added. Claim 1 has been amended to include limitations of canceled claims 3 and 4. Claim 6 has been amended to depend upon claim 1 rather than canceled claim 5. Claim 7 has been amended into independent form incorporating the limitations of its base claim 1. Claim 13 has been amended to include limitations of canceled claim 19. Claim 15 is amended to depend on claim 13 rather than canceled claim 14. Claim 20 has been amended into independent form incorporating limitations of its base claim 13. New claims 21 to 47 recite subject matter not previously claimed. New independent claims 21, 28, 34 and 43 recite details of the two register files as taught in this application with regard to Figure 2. Claims 12 and 29 recite two registers including an A register and a B register with a

corresponding register access number. Claim 22 recites subject matter illustrated at 174 of Figure 16. Claims 23 and 24 recite subject matter illustrated at 184 of Figure 18. Claims 25 and 26 recite subject matter illustrated at 186 of Figure 18. Claims 27 and 28 recite subject matter illustrated at 188 of Figure 18. Claim 30 recites subject matter illustrated at 182 of Figure 17. Claim 31 recites subject matter illustrated at 198 of Figure 19. Claim 32 recites subject matter illustrated at 200 of Figure 19. Claim 33 recites subject matter illustrated at 202 of Figure 19. Claims 34 and 43 recite four registers including an even/odd pair of A registers and a corresponding even/odd pair of B registers. Claim 35 and 36 recite subject matter illustrated at 190 of Figure 18. Claims 37 and 38 recite subject matter illustrated at 192 of Figure 19. Claims 39 and 40 recite subject matter illustrated at 194 of Figure 19. Claims 41 and 42 recite subject matter illustrated at 196 of Figure 19. Claim 44 recites subject matter illustrated at 204 of Figure 19. Claim 45 recites subject matter illustrated at 206 of Figure 19. Claim 46 recites subject matter illustrated at 208 of Figure 19. Claim 47 recites subject matter illustrated at 210 of Figure 19.

Paragraph 15 of page 4 of the OFFICE ACTION stated that claims 5 to 12, 19 and 20 would be allowable if rewritten in independent form. As amended claim 1 recites the subject matter of claim 5 and intervening claims 3 and 4. Accordingly, claims 1, 2 and 6 are allowable. Claim 7 has been amended into independent form incorporating the limitations of its base claim 1. Accordingly, claims 7 to 12 are allowable. Claim 13 has been amended to include limitations of claim 19. Accordingly, claim 13 is allowable. Claim 20 has been amended into independent form incorporating the limitations of its base claim 13. Accordingly, claim 20 is allowable.

New claims 21 to 47 are allowable. None of the cited references teach the separate A and B functional units with the A and B register files having limited crossover as recited in independent claims 21, 29, 34 and 43. None of the cited references teach the use of four registers as recited in independent claims 34 and 43.

The Applicants respectfully submit that all the present claims are allowable for the reasons set forth above. Therefore early reconsideration and advance to issue are respectfully requested.

If the Examiner has any questions or other correspondence regarding this application, Applicants request that the Examiner contact Applicants' attorney at the below listed telephone number and address to facilitate prosecution.

Texas Instruments Incorporated
P.O. Box 655474 M/S 3999
Dallas, Texas 75265
(972) 917-5290
Fax: (972) 917-4418

Respectfully submitted,


Robert D. Marshall, Jr.
Reg. No. 28,527